Find square root of number using Babylonian method.

1 Start with an arbitrary positive start value x (the closer to the

root, the better).

2 Initialize y = 1.

3. Do following until desired approximation is achieved.

a) Get the next approximation for root using average of x and y

b) Set y = n/x

**object** Fibo

{

**def** main(args:Array[*String*])

{

println("Enter value of n")

**val** n =scala.io.StdIn.readLine().toInt

**val** sr=squareRoot(n)

println(f"square root of $n is : $sr%2.2f")

}

**def** squareRoot( n:Float): Float=

{

**var** x = n;

**var** y : Float= 1.0f;

**val** e = 0.000001;

**while**(x - y > e)

{

x = (x + y)/2f;

y = n/x;

}

**return** x;

}

}

o/p:

